

Claims

*→ 3rd 21* 1. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a first computer has been connected, and a second computer is connected to one of said connecting means, wherein

    said first computer comprises resource information managing means for managing information relating to resources usable through said network circuit, and resource information processing means for taking out the content of said resource information managing means in response to a request of information relating to usable resources from other computer, and transmitting to said network circuit,

    said second computer comprises resource setting means for setting the resource according to the content of the resource information transmitted by said resource information processing means of said first computer, and

    when said second computer is connected to said network circuit through any one of said plural connecting means, said resource setting means receives the content of the resource information transmitted by said resource information processing means of said first computer and sets the resource.

2. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a first computer has been connected, and a second computer is connected to one of said connecting means, wherein

    said first computer comprises resource information managing means for managing information relating to resources usable through said network circuit, resource information processing means for taking out the content of said resource information managing means in response to a request of information relating to usable resources from other computer, and transmitting to said network circuit, and resource installation position managing means for managing the position at which the resource managed by said resource information managing means exists,

    said second computer comprises position noticing means for noticing the position information indicating the position to said first computer when connected to one of said connecting means, resource selecting means for selecting an arbitrary resource out of plural resources, and resource setting means for setting the resource according to the content of the resource information selected by said resource selecting means, and

    when said second computer is connected to said network circuit through any one of said plural connecting means,

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    said resource installation position managing means of said first computer reads out the resource information corresponding to the position information noticed by said position noticing means from said resource information managing means, and transmits to said second computer, and

    said resource setting means of said second computer sets the resource selected by said resource selecting means in the resource information received from said first computer.

3. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a first computer has been connected, and a second computer is connected to one of said connecting means, wherein

    said first computer comprises resource information managing means for managing information relating to resources usable through said network circuit, and resource information processing means for taking out the content of said resource information managing means in response to a request of information relating to usable resources from other computer, and transmitting to said network circuit,

    said second computer comprises resource information holding means for holding the resource information relating to the resources that can be managed directly, and comparing means for comparing the content of said resource information

holding means and the content of said resource information managing means of said first computer, and detecting a replaceable resource, and

when said second computer is connected to said network circuit through any one of said plural connecting means as being disconnected from the resource that can be managed directly, said comparing means compares the content of said resource information managing means transmitted from said resource information processing means and the content of said resource information holding means, and said resource setting means sets a replaceable resource.

4. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a computer is connected to one of said connecting means, wherein

said computer comprises resource information managing means for managing plural sets of information relating to the resources usable through said network circuit corresponding to said connecting means, position selecting means for selecting one of the information relating to plural sets of resources managed by said resource information managing means, and resource setting means for setting the resource according to the information relating to the resource corresponding to the position selected by said position

selecting means, and

when said computer is connected to said network circuit through any one of said plural connecting means, said resource setting means obtains the resource information corresponding to the position selected by said position selecting means from said resource information managing means, and sets the resource.

5. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a first computer has been connected, and a second computer is connected to one of said connecting means, wherein

said first computer comprises resource information managing means for managing plural sets of information relating to resources usable through said network circuit corresponding to plural positions,

said second computer comprises resource information managing means for managing plural sets of information relating to the resources usable through said network circuit corresponding to said connecting means, position selecting means for selecting one of the information relating to plural sets of resources managed by said resource information managing means, resource setting means for setting the resource according to the information relating to the

resource corresponding to the position selected by said position selecting means, and comparing means for comparing the updated time of the content of the own resource information managing means and the updated time of the content of said resource information managing means of said first computer, and

when said second computer is connected to said network circuit through any one of said plural connecting means, said resource setting means obtains the content of said resource information managing means of said first computer, and registers in said resource information managing means in the case where the comparing result by said comparing means shows that the updated time of the content of the own resource information managing means is before the updated time of the content of said resource information managing means of said first computer.

6. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a computer is connected to one of said connecting means, wherein

said computer comprises resource information managing means for managing plural sets of information relating to the resources usable through said network circuit corresponding to said connecting means, position selecting means for

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selecting one of the information relating to plural sets of resources managed by said resource information managing means, resource setting means for setting the resource according to the information relating to the resource corresponding to the position selected by said position selecting means, updated resource information transmitting means for transmitting updated resource information to all computers connected to said network circuit when content of said resource information managing means is updated, and resource information updating means for updating the content of said resource information managing means when receiving the updated resource information, and

when said computer is connected to said network circuit through any one of said plural connecting means, said resource information updating means updates the content of said resource information managing means in the case where said resource information updating means receives the updated resource information from said updated resource information transmitting means of other computer.

7. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which plural first computers have been connected, and a second computer is connected to one of said connecting means, wherein

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each of said first computers comprises resource information managing means for managing information relating to a resource installed at a specific position usable through said network circuit, and resource information processing means for taking out the content of said resource information processing means in response to a request of information relating to usable resources from other computer, and transmitting to said network circuit,

said second computer comprises position information managing means for managing information relating to the positions of the resources managed by each of said plural first computers, position selecting means for selecting one of the information relating to the positions managed by said position information managing means, resource information obtaining means for obtaining the information relating to the resource corresponding to the position selected by said position selecting means from said first computer managing it, and resource setting means for setting the resource according to the content of the resource information obtained by said resource information obtaining means, and

when said second computer is connected to said network circuit through any one of said plural connecting means, said resource information obtaining means obtains the resource information corresponding to the position selected by said position selecting means from the information managed by said

position information managing means, and said resource setting means sets the resource.

8. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a computer is connected to one of said connecting means, wherein

    said computer comprises resource information obtaining means, when other computer is connected to said connecting means of said network circuit, for obtaining the information relating to the usable resources through said network circuit from said other computer, and resource setting means for setting the resource according to the information relating to the resource obtained by said resource information obtaining means, and

    when said computer is connected to said network circuit through any one of said plural connecting means, said resource setting means sets the resource according to the resource information obtained by said resource information obtaining means from other computer connected to said connecting means of said network circuit.

9. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a computer is

connected to one of said connecting means, wherein  
each of said plural connecting means has position  
managing means for storing the position information  
indicating each installation position,  
said computer comprises resource information managing  
means for managing plural sets of information relating to the  
resources usable through said network circuit corresponding  
to said connecting means, position selecting means for  
selecting one of the information relating to plural sets of  
resources managed by said resource information managing means  
corresponding to the position information stored in said  
position managing means of said connecting means, and  
resource setting means for setting the resource according to  
the information relating to the resource corresponding to the  
position selected by said position selecting means, and  
when said computer is connected to said network circuit  
through any one of said plural connecting means, said  
resource setting means sets the resource according to the  
resource information registered in said resource information  
managing means corresponding to the position information  
stored in said position information managing means of the  
connecting means to which said computer is connected.

10. A computer network system in which plural  
connecting means capable of connecting and disconnecting a

computer is provided in a network circuit to which a computer is connected to one of said connecting means, wherein

    said connecting means comprises resource information managing means for managing the information relating to the resources usable through said network circuit near each installation position, resource information noticing means for noticing the content of said resource information managing means when the computer system is connected, and updated resource information registering means for updating and registering the content of said resource information managing means by receiving updated resource information from said computer,

    said computer comprises resource information receiving means for receiving the resource information managed by said resource information managing means noticed by said resource information noticing means, resource setting means for setting the resource according to the resource information received by said resource information receiving means, and updated resource information noticing means for noticing the updated resource information to said connecting means in order to update the content of said resource information managing means of said connecting means, and

    when said computer is connected to said network circuit through any one of said plural connecting means, said resource information receiving means receives the resource

information managed by said resource information managing means noticed from said resource information noticing means, and said resource setting means sets the resource according to the resource information received by said resource information receiving means.

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11. The computer network system as set forth in claim 10, wherein

    said connecting means further comprises updated resource information transmitting means for sending out updated resource information to said network circuit when the content of said resource information managing means is updated, and updated resource information receiving means for updating the content of said resource information managing means when receiving the updated resource information from said network circuit,

    when updated resource information is noticed from said updated resource information noticing means to said connecting means, said updated resource information transmitting means sends out the updated resource information to said network circuit, and

    said updated resource information receiving means, when receiving the updated resource information from said network circuit, updates the content of said resource information managing means according to the received updated resource

information.

12. A computer network system in which at least one connecting means capable of connecting and disconnecting a computer is provided in plural network circuits to each of which resource has been connected, and a computer is connected to one of said connecting means, wherein

said resource has resource information replying means  
for replying the own resource information when receiving a  
predetermined message,

said computer comprises resource request message transmitting means for transmitting a message propagating within one network circuit, resource information receiving means for receiving the resource information, and resource setting means for setting the resource according to the content of the resource information received by said resource information receiving means, and

when said computer is connected to said network circuit through any one of said plural connecting means, a predetermined message is transmitted from said resource request message transmitting means, the resource information of said resource replied by said resource information replying means for said predetermined message is received by said resource information receiving means, and the resource is set by said resource setting means.

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13. A computer network system in which at least one connecting means capable of connecting and disconnecting a computer is provided in plural network circuits to each of which a first computer has been connected, and a second computer is connected to one of said connecting means, wherein

each of said first computers comprises resource information managing means for managing information relating to resources usable through only one network circuit to which each is connected, and resource information replying means for replying the resource information which is the content of the own resource information managing means when receiving the predetermined message,

said computer comprises resource request message transmitting means for transmitting a message propagating within one network circuit, resource information receiving means for receiving the resource information, and resource setting means for setting the resource according to the content of the resource information received by said resource information receiving means, and

when said computer is connected to said network circuit through any one of said plural connecting means, a predetermined message is transmitted from said resource request message transmitting means, the resource information replied by the resource information replying means of said

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resource of said first computer to this predetermined message is received by said resource information receiving means, and the resource is set by said resource setting means.

14. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a computer is connected to one of said connecting means, wherein

each of said plural connecting means comprises position managing means for storing the position information showing each installation position, and radio communication means,

said computer comprises resource information managing means for managing plural sets of information relating to resources usable through said network circuit corresponding to said connecting means, radio communication means for connecting with said radio communication means of said connecting means by radio communication, and selecting one of the information relating to plural sets of resources managed by said resource information managing means corresponding to the position information stored in said position managing means of said connecting means, and resource setting means for setting the resource according to the information relating to the resource corresponding to the position selected by said position selecting means, and

when the radio communication means of said computer is

connected to said radio communication means of any one of said plural connecting means through radio communication, said resource setting means sets the resource according to the resource information registered in said resource information managing means corresponding to the position information stored in said position information managing means of the connecting means to which said radio communication means of said computer is connected.

15. A computer network system in which plural connecting means capable of connecting and disconnecting a computer is provided in a network circuit to which a radio base station capable of communicating with a mobile radio communication device is connected, and a computer is connected to one of said connecting means, wherein

    said radio base station comprises position information managing means for transmitting the position information for identifying itself to said network circuit when communicating with said mobile radio communication device, and corresponding means for managing by corresponding between said mobile radio communication device and said computer,

    said computer comprises resource information managing means for managing plural sets of information relating to the resources usable through said network circuit corresponding to said connecting means, position selecting means for

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selecting one of the information relating to plural sets of resources managed by said resource information managing means according to the position information transmitted from said position managing means of said radio base station, and resource setting means for setting the resource according to the information relating to the resource corresponding to the position selected by said position selecting means, and

when said computer is connected to said network circuit through any one of said plural connecting means, said resource setting means sets the resource by obtaining the resource information corresponding to the position selected by said position selecting means from said resource information managing means.

16. A portable computer used by being connected to a computer network to which a server computer is connected, comprising:

a resource information inquiring unit for inquiring the information relating to the resources usable in said network, to said server computer of the network to which it is connected itself,

a resource information obtaining unit for obtaining resource information noticed from said server computer in response to the inquiry from said resource information inquiring unit, and

a resource setting unit for setting at least one resource required in said network according to the information relating to the resource obtained by said resource information obtaining unit, wherein

said resource setting unit, when connected to a certain network, sets the resource according to the resource information intrinsic to the network obtained by said resource information obtaining unit.

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